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NPIC/TDS/D/6-1719  
15 December 1966

## MEMORANDUM FOR THE RECORD

SUBJECT : Visit [REDACTED]

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REFERENCES: a. PAR-243 Briefing Print Enlarger (Prototype).  
b. PAR-245 High Magnification Lens set.  
c. PAR-244 Spare Parts for Roller Transport Processors.  
d. Joint Procurement of B.P.E. under Contract [REDACTED]

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1. On 9 November 1966 [REDACTED] visited [REDACTED] to review progress being made on the below listed tasks. [REDACTED] was represented [REDACTED]

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2. PAR-243 Briefing Print Enlarger:

a. Work on the Prototype Enlarger is progressing very well and it appears that the scheduled delivery of April 1967 will be met. Practically all of the piece parts have been fabricated and it is expected that the equipment will be almost completely assembled by early January 1967. The parts are being fabricated at the [REDACTED] time did not permit going from [REDACTED] to inspect these piece parts prior to their assembly. Some of the detailed changes are as follows: Hand grips have been added to the lens mounts, as planned at the last meeting. It also has been found desirable to extend the lens ramp three inches to facilitate insertion of the lens; this also was discussed at the last meeting.

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b. One relatively minor problem has developed: If a frame is selected for printing and is carried through the operation to the point of fluid injection, and then is aborted without turning on the light, a bead of fluid will be left around the periphery of the platen glass. (This was reported in the September monthly report). It has been decided to correct this by use of a pair of camel's hair brush gently touching the film when the negative is withdrawn from the gate. Care will be required to see that the brushes are kept clean. The writer suggested that an air squeegee be used to remove the excess liquid. It was stated that such a method had been considered but it was not practical with the design; further, its use

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would generate objectional noise and stir up dust.

c. The physical characteristics of the vacuum blower were discussed. For advanced planning, it was decided that it was permissible to locate it outside of the printing room, if necessary. The blower is contained in a cubicle 40 inches wide, 38 inches high, and 32 inches deep. It has intake and exhaust ports on opposite sides.

d. The primary 208 volt 3 phase (4 wire) power supply will terminate in an "ARKATITE" junction box in the vicinity of the blower. Plug-in secondary lines will run to the printer from that point.

e. Copies of the Installation Engineering Data form were left with the contractor. The completed form is due to be received from the contractor by 24 December 1966.

f. The next visit to [REDACTED] on this task is scheduled for early January 1967 at which time plans will be formulated for the next joint services liaison meeting.

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3. PAR-245 High Magnification Lens Set:

a. As indicated in the monthly report for September 1966, a moderate loss in definition can be expected for the 60X to 97X lens set in the area between 16° and 18° off axis which is the maximum for the lens. I am informed that the deficiency will manifest itself in the form of minute comet tails to the silvergrains in the corners of the 20X 24 inch print. No degradation will appear on 20 X 24 inch prints having a magnification greater than 66X because the angular field for such a print does not exceed 16°. Several sets of ray tracings were computed in an effort to eliminate the deficiency without success; any gain achieved in the corners or extreme angle was at the expense of the on axis quality. It was decided to accept a compromise which would give the best definition for the majority of the picture area and accept a loss in the corners.

b. [REDACTED] will proceed with completion of the design and fabrication of the lens set so lens-film tests can be performed to determine actual picture quality.

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c. It now appears that preliminary tests of the lens may be made sometime in May 1967.

d. It is currently believed that test specifications for these lens sets will be available in May 1967. Scheduled delivery of the lens sets has not been changed from the September 1967 date.

4. PAR-244 Spare Parts for Roller Transport Processors:

A firm cost estimate and delivery schedule is now available on the spare parts for the RT-12 and RT-24 processors. The total cost of these parts is [REDACTED] with delivery starting in January 1967, for the readily available parts, delivery of parts fabricated to order, will be completed in June 1967 and will include several feet of 1/8 inch stainless steel key stock that was inadvertently omitted from the parts list. The above cost estimate includes rebuilding one of the RT-12 racks with different materials to permit it's possible use in the bleach bath.

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5. Contract [REDACTED] Joint Services Procurement of BPE:

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a. The major activity on this contract has been the clerical effort necessary to initiate the procurement and manufacture of the components released for multiple fabrication at the last meeting of the liaison group on 14-15 September 1966.

b. A new production schedule has been planned that will shorten the delivery of the last item by about 60 days. This will make delivery of the seventh printer in August 1968. The major reason for the long delivery schedule is installation and check out. At present, only one crew is planned to perform check out and to instruct operating personnel at the customer's location. It is estimated that six weeks will be required for each printer. Continuing effort will be made to further compress this delivery schedule.

a. [REDACTED] has received authorization for expenditures up to [REDACTED] on this task.

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d. The current plans are to review progress on the Prototype model early in January 1967 and to hold a second joint liaison meeting at EK during the latter part of January 1967. At that time the joint representatives should be able to see a nearly completed prototype printer. It is hoped that joint release of additional components for multiple fabrication can be made at that time.

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Distribution:

Original - [REDACTED] Proj. 997164  
1 - TDS/Ex. O  
1 - PSD  
3 - PAR-243-244 & 245  
2 - TDS/DS Chrono

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NPIC/TDS/DS [REDACTED]

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